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1. [N141-039: Active Sonar Interference Avoidance Planning](#)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop an innovative sonar planning tool for automating Active Sonar Interference Avoidance Planning (ASIAP) to optimize management of sonar parameters. DESCRIPTION: Currently, Navy strike groups employ multiple active sonar systems to detect threat submarines [Ref 1]. These sonar systems increasingly compete for the same frequency spectrum resulting in signal interference, which i ...

SBIR Department of DefenseNavy

2. [N152-115: Active Thermal Control System Optimization](#)

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Thermal Management is a critical requirement for future warships with electronic propulsion, weapon, and sensor systems. Innovative thermal architectures are needed to cool next-generation, high-energy density electronics which are expected to exhibit highly transient loads during pulsed operation. Two-phase cooling systems, such as vapor compression cycles, pumped cooling loops, and hybrid system ...

SBIR NavyDepartment of Defense

3. [N141-041: Adaptable Standardized Modular Infrastructure for Optimal Space Utilization](#)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: To develop an affordable innovative standardized structure that is adaptable multiple configurations, sizes, and shapes. DESCRIPTION: Navy ships are built to stringent size constraints. Ensuring essential mission systems are accommodated is the primary objective in the design of a Navy ship. Remaining areas and space for crew accommodations have to be optimized. Efficient use of allo ...

SBIR Department of DefenseNavy

4. [A12-117: Adapting SmartPhones for Ocular Diagnosis](#)

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop a stereo-photo Smartphone ophthalmic slitlamp (system), with accessories and software applications for ocular diagnosis in remote or austere locations where ophthalmic or optometric support is unavailable, such as military forward operating bases, ships afloat, or disaster areas, or humanitarian missions. DESCRIPTION: Ocular injuries currently account for approximately 13-22 ...

SBIR Army

5. [AF141-109: Adaptive antenna structures](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Develop antenna structure(s) or related items, capable of reducing radio frequency interference (RFI) susceptibility in RF-congested environments by controlling radiated and received emissions. DESCRIPTION: The Air Force Satellite Control Network (AFSCN) finds itself operating in regions of increasingly congested Radio Frequency Interference (RFI). The advent of private and comm ...

SBIR Department of Defense Air Force

6. [OSD11-CR2: Adaptive Desktop Trainer for ISR Imagery Analysis Based on Contextual Factors](#)

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Information Systems, Human Systems OBJECTIVE: Develop an adaptive desktop training device with underlying learning management system (LMS) architecture to train ISR imagery analysis for better decision making by warfighters.

SBIR Department of Defense Army Navy Defense Advanced Research Projects Agency Office of the Secretary of Defense

7. [N133-148: Adaptive Diesel Engine Control](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: The objective is to reduce the volume of fuel consumed by the MTVR engine during mission operations by 15-25% over current fuel consumption while increasing the power output of the engine by 5-10% over current engine rated capability. These goals will be reached thru modification of the Caterpillar C12 or similar engine enabling full and independent control of diesel engine components ...

SBIR Department of Defense Navy

8. [AF141-025: Adaptive Instruction Authoring Tools](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate tools that will allow subject matter experts (SMEs), instructional system designers (ISDs) and software engineers to produce simulation-based intelligent tutors and adaptive instruction more efficiently. DESCRIPTION: The impact of intelligent tutoring systems and other forms of adaptive training technologies for promoting learning and subsequent performance ...

SBIR Department of Defense Air Force

9. [A14-077: Adaptive Inter-Cylinder Output Balancing System \(AICOBS\)](#)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop an in-vehicle, software system, for an electronically-controlled diesel engine fuel system, to adaptively reduce inter-cylinder variability in output, in real-time, resulting in improved engine output, reliability, and fuel economy. DESCRIPTION: All multi-cylinder internal combustion engines exhibit imbalance in power output between cylinders. This is due to necessary har ...

SBIR Department of DefenseArmy

10. [AF12-BT14: Adaptive multi-sensor wide area situational awareness system](#)

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop machine learning technology that can significantly improve warfighter wide area situational awareness based on multiple sensors. DESCRIPTION: Layered sensing enables situational awareness (SA) about an area of interest (AOI) by providing multiple high-resolution views of the area. SA in a wide area of operations is particularly challenging as the sensor resources have to b ...

STTR Air Force

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